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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,260	05/18/2005	Timo Pulli	3501-1097	5730
			EXAMINER	
YOUNG & THOMPSON 745 SOUTH 23RD STREET			COOK, LISA V	
2ND FLOOR ARLINGTON,	VA 22202		ART UNIT	PAPER NUMBER
Ź			1641	
			MAIL DATE	DELIVERY MODE
			10/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/535,260	PULLI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lisa V. Cook	1641				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l. ely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 18 M	lay 2005.					
2a) This action is FINAL . 2b) This	This action is FINAL . 2b) This action is non-final.					
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-25 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-25 are subject to restriction and/or expressions.	wn from consideration.					
Application Papers	•					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the E drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

DETAILED ACTION

Preliminary Amendment Entry

1. The preliminary amendment filed 5/18/05 is acknowledged. The specification and claims were modified. Currently, claims 1-25 are pending and under consideration.

Election/Restrictions

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

To have a general inventive concept under PCT rule 13.1, the inventions need to be linked by a special technical feature. The special technical feature that appears to link claims 1-25 is dual antibody reagent pair, wherein one of the antibodies is produced from a recombinant library, and the reagent pair has utility in non-competitive immunoassays. However, such antibody reagent pairs and their utility in assay procedures were disclosed in the prior art. The reference of Self et al. (Clinical Chemistry, Vol.40, No.11, pages 2035-2041, 1994) disclose a dual antibody reagent-pair being applicable in noncompetitive immunometric assay systems. The assay is based on the interaction of a primary antibody with its ligand in order to form new binding sites, recognizable by a second antibody - which then binds to form a detectable complex. See abstract. The antibodies (fragments) are produced by various procedures. See page 2036 – 2nd column.

Although Self et al. are silent with respect to antibody production from a recombinant library, these procedures were well known in the prior art. For example, see the reference to Arai et al. (Protein Engineering, Vol.13, No.5, pages 369-376, 2000).

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Accordingly, the technical feature recited in claims 1-25 is not a contribution over the prior art. The groups set forth below are not so linked as to form a single general concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- A. Group I, claim(s) 1-6 and 18-20 are drawn to a non-competitive immunoassay for a small analyte employing a reagent pair (A 1st first method employing a special technical feature or reagent pair).
- B. Group II, claim(s) 7 and 17 are drawn to a reagent pair (A 1st special technical feature).
- C. Group III, claim(s) 8-16 are drawn to test kits comprising reagent pairs. (A 1st product comprising the special technical feature).
- D. Group IV, claim(s) 21-25 are drawn to recombinant binding proteins, DNA and host cells. (A 2nd special technical feature portions of the reagent pair).
- 3. The inventions listed as Groups A through D do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Under PCT rules Applicant is entitled to an examination of one of the combination groupings: (1) a product, a method of using said product and a method of producing said product.

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The instant claims are directed to multiple special technical feature (antibody constructs) and methods and/or products that utilize either of the special technical features, therein applicant must select one for further prosecution.

- 4. Group C (claims 15-16) and Group D (claims 21-23) include sequences identification numbers. With respect to the separate amino acid structures and the nucleic acid structures, they bear distinct structural or biochemical properties having different binding epitopes (Specification references sequence id. Nos. 1-5). Therefore, each disclosed patentably distinct amino acid sequences and nucleic acid sequence is considered a separate invention. See Official Gazette 1232 OG 242(116) March 21, 2000. Therein the O.G. notice permits the examiner to examine up to ten sequences per application based on the use of US PTO resources. Resources are now stretched to the limit, such that only one sequence should be searched per application. It is recognized that although the search for the inventions may overlap they are not totally coextensive, where by the search for one would fully encompass the search for the others.
- 5. Therefore, if applicant elects Group **C** or Group **D** one sequences must be selected for consideration. Either SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, or SEQ ID NO:5.
- 6. Because these inventions are distinct for the reasons given above, restriction for examination purposes as indicated is proper.

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Because these inventions are distinct for the reasons given above and the search required for Group A through D are not totally inclusive, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

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9. Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO fax center located in Crystal Mall 1. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 1641 Fax number is (571) 273-8300, which is able to receive transmissions 24 hours/day, 7 days/week.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lisa V. Cook whose telephone number is (571) 272-0816. The examiner can normally be reached on Monday - Friday from 7:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le, can be reached on (571) 272-0823.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group TC 1600 whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lisa V. Cook

Patent Examiner

\$ 9/25/07

Remsen 3C-59

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LONG V. LE 69/26/ SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1600